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3 **In the claims:**  
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5 1 (Currently amended) A device, comprising:  
6 an input fiber to guide an input optical beam;  
7 a stationary reflector having a reflective surface  
8 that is partially transmissive to light, said reflector  
9 positioned to reflect a part of the input optical beam at  
10 said reflective surface as a reflected optical beam and to  
11 transmit a part of the input optical beam as a transmitted  
12 optical beam;  
13 an output fiber positioned to receive and guide the  
14 reflected optical beam as an output optical beam;  
15 an optical detector positioned to receive the  
16 transmitted optical beam and to produce a detector output;  
17 a magnetic field substantially axial to said input of  
18 said output optical fiber;  
19 a variable optical attenuator positioned in an optical  
20 path between said reflective surface and one of said input  
21 and said output fibers to attenuate light in response to a  
22 control signal;

1        said variable optical attenuator comprising ~~said input~~  
2 ~~fiber and said output fiber both having exposed fiber ends~~  
3 ~~adjacent to each other and to a reflective~~ a movable  
4 shutter placed ~~between~~in front of ~~at least one of said~~  
5 input or said output fiber and said stationary reflector,  
6 said movable shutter interacting with said optical beam,  
7 ~~said reflective~~ movable shutter supported by a current  
8 carrying wire, ~~said wire perpendicular to a magnetic field;~~  
9 ~~such that~~

10        whereby said magnetic field and a magnetic field  
11 produced by said current carrying wire interact, thereby  
12 causing a movement of ~~said reflective~~ movable shutter ~~on~~  
13 ~~said current carrying wire is responsive to the~~ a magnetic  
14 ~~field produced by said current carrying wire and said~~  
15 ~~magnetic field;~~

16        ~~said control signal being coupled to the current in~~  
17 ~~said current carrying wire.~~

18

19        2 (original) The device as in claim 1, wherein said  
20 variable optical attenuator is positioned to attenuate the  
21 input optical beam incident to said reflective surface, and  
22 wherein the detector output indicates a power level of the  
23 output optical beam.

1

2           3 (withdrawn) The device as in claim 1, wherein said  
3 variable optical attenuator is positioned to attenuate the  
4 reflected optical beam, and wherein the detector output  
5 indicates a power level of the input optical beam.

6

7           4 (cancelled) The device as in claim 1, wherein said  
8 variable optical attenuator is a micro attenuation  
9 controllable element.

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11           5 (withdrawn) The device as in claim 1, wherein said  
12 variable optical attenuator attenuates light by scattering  
13 light.

14

15           6 (original) The device as in claim 1, wherein said  
16 variable optical attenuator attenuates light by reflecting  
17 light.

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19           7 (withdrawn) The device as in claim 1, wherein said  
20 variable optical attenuator attenuates light by absorbing  
21 light.

22

1           8 (original) The device as in claim 1, further  
2 comprising a housing to hold said optical detector, said  
3 reflector, said variable optical attenuator, said input and  
4 said output fibers as an integrated package.

5  
6           9 (original) The device as in claim 8, said housing  
7 has a first end to hold said optical detector and said  
8 reflector, and a second, opposing end to hold said input  
9 and said output fibers.

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11          10 - 12 (Cancelled)

12  
13          13 (Currently amended) A device, comprising:  
14          a housing having a first end and a second opposing  
15 end;  
16          an optical detector engaged to said first end;  
17          a stationary collimator lens having a flat end lens  
18 facet in said housing to face said optical detector and to  
19 transmit a fraction of light to said optical detector;  
20          a magnet in said housing to produce a magnetic field;  
21          a capillary body being in said housing to hold input  
22 and output fibers that exit said housing at said second  
23 opposing end and having an end facet facing said collimator

1 lens to expose end facets of said input and output fibers  
2 to said collimator lens and to the magnetic field, wherein  
3 said collimator is configured and spaced from said end  
4 facet of said capillary body to collimate light from one  
5 fiber and to focus reflected light by said flat end lens  
6 facet to another fiber;

7 a conductive wire movably fixed to said capillary body  
8 to have a wire portion across said end facet of said  
9 capillary body, said wire movable along said end facet when  
10 an electric current is supplied to said wire to interact  
11 with said magnetic field; and

12 a shutter engaged to said wire portion and movable  
13 along with said wire to intercept a beam that is either  
14 output by said input fiber or received by said output fiber  
15 to attenuate the beam.

16

17 14 (withdrawn) The device as in claim 13, wherein said  
18 shutter scatters the beam when intercepting the beam.

19

20 15 (withdrawn) The device as in claim 13, wherein said  
21 shutter absorbs the beam when intercepting the beam.

22

1           16 (original) The device as in claim 13, wherein said  
2 shutter reflects the beam when intercepting the beam.

3

4           17 (original) The device as in claim 13, further  
5 comprising first and second adhesive pads on sides surfaces  
6 of said capillary body to bond two parts of said wire to  
7 said capillary body as pivot points for motion of said  
8 wire.

9

10          18 (original) The device as in claim 17, wherein said  
11 adhesive pads are elastic and soft to reduce effects of  
12 mechanical shocks and vibrations to said wire and said  
13 shutter.

14

15          19 (original) The device as in claim 18, wherein said  
16 adhesive pads are made of an epoxy.

17

18          20 (original) The device as in claim 13, further  
19 comprising a control unit the controls the electric  
20 current in said wire in response to an output of said  
21 optical detector.

22

1           21 (original) The device as in claim 13, wherein said  
2 collimator lens is a GRIN lens.

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4           22 (withdrawn) The device as in claim 13, wherein said  
5 collimator lens is a C lens.

6

7           23 (original) The device as in claim 13, wherein said  
8 flat end lens facet is coated with a reflective coating  
9 that is partially transmissive.

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11           24 (withdrawn) The device as in claim 13, further  
12 comprising a partially transmissive mirror engaged to said  
13 flat end lens facet.